

INDY

ham radio

NEWSLETTER

W9JJP

INDIANAPOLIS RADIO CLUB, INC.

Regular meetings held on the 2nd & 4th
Fridays at 8:00 PM in the United
Christian Mission Bldg. 222 S. Downey

Trustee Ron Williams W9JVF
1147 N. Emerson 46219

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MARCH 19th, 1973

INDIANAPOLIS RADIO CLUB INC.

ISSUE NO. 6

PROGRAM MEETING:

FRIDAY MARCH 23, 1973 "ELECTRONIC MEASUREMENT TECHNIQUES AND EQUIPMENT. Presented by Dick Judkins Chief Engineer Esterline Angus Instruments Co. Speedway, Indiana. This is a must for all club members, we are pleased to have Dick, return to keep our club up to date on measurements in his friendly and informative manor.

PROGRAM REVIEW:

Review by Art Schultz of March 9th meeting by Bill McLaughlin W9GZT appears on reverse side of page. also answers to Noodle Nudgers.

MARION COUNTY DIRECTORY

Alvey Pittman W9EL continues to burn the midnight oil and all his helpers are out their putting together another issue of the Directory. Target date is late April for printing and hopefully the printing will be finished before May. Charles Byers WB9GCD has prepared a letter to potential adviters and is following up to help support this undertaking.

NEW CLUB MEMBERS

At the March 9th meeting 11 new members were officially voted in as members and presented the club certificates. They are as follows: Tom Chance WN9KWS, Richard Davis WN9KMU, Jack Murphy WB9IME, Al Strickland W9LKZ, Harold McGee W9YZQ, W. G. McLaughlin W9GZT, Paul Russell -, Deane Loughmiller -, Bart Besinger W9GFA, also renewed members Gary Hughes K9LNX and Vern Miles no call yet but waiting on the mail man/??..

HEART PACE-MAKER ATTN ALL HAMS

Vern Swigert who is a club member and is dependent on a heart pacer maker, suggest everyone read the article in MARCH QST on pacemakers and caution anyone he knows who is a ham to be advised that RF can and does stop these pacemakers. Vernon knows from experience what can happen. EVERYONE SHOULD READ THIS MARCH QST ARTICLE. IT COULD SAVE A LIFE. Possibly your own if you are dependent on a pacemaker.

RF ALSO EFFECTS

The electrnic fuel injection on VW and possibly other cars, so better be sure before you put your kilowatt in that VW or new Mercedes, 914 Porsche, SAAB, Volvo , that everytime you key the mike the engine may stop. Also the Sure-track electronic braking system of some cars may be effected by RF.

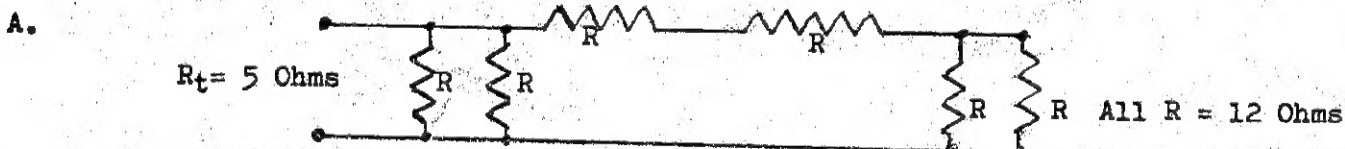
see you Friday March 23..... 73 Bob W9PSE

Fourty Three (43) members and guests heard Bill's paper on mathematics used in communications circuits. To lend sparkle and interest to his material, Bill illustrated the various applications for radio math by putting Johnny, our hero, thru a shipwreck on a lonely island where with some radio gear and a good recall of theory, Johnny designs a transceiver in the 40 meter band together with his antenna. He divides his desired frequency into the speed of light and gets his antenna wavelength after cutting the answer in half. He calculates his inductance from the solenoid formula in terms of length, diameter and turns for his tuning capacitor. He uses powers of ten in his math to simplify the handling of extremely large and small numbers. Johnny then calculates his bias resistors, screen dropping resistor and plate load resistors to fit the tube type he uses and to match his earphones. He understands why the value 2π keeps cropping up in all the impedance formulas since they work with cyclical waves rather than DC therefore there is this connection between two pi radians in a 360 degree circle and the same number of angles in one cycle, a circle cut thru and opened up. Bill showed how to apply math to the design of circuits rather than copying slavishly something out of a radio article or the handbook Al Strickland W9LKZ helped Bill confirm sliderule answers by working out various problems on a portable digital calculator a luxury our hero Johnny could not share on his island, having lots of paper and pencils doint it all the hard way. Thanks, Bill, for a well organized and prepared program. (Prepared by; Art Schultz, W9BR, Program rigger.

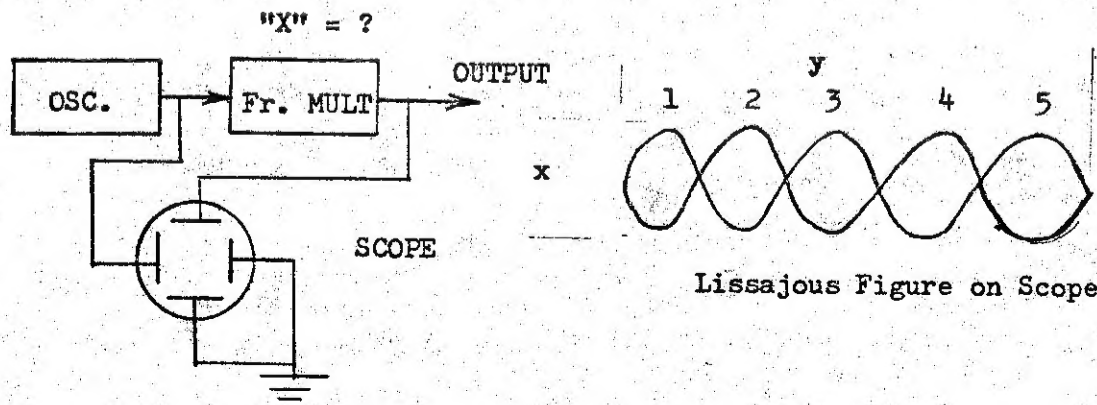
ANSWERS TO NOODLE NUDGERS (FROM THE DESK OF PROF. PHLUNQUE)

FOR THE YOUNG SKWIRT

Q. Show the circuit using the least number of 12 ohm resistors required to make a 5 ohm equqlivent resistor.



Q. FOR THE OLDE TYMER What is the frequency multiplier value in the following circuit and lissajous figure??



A. "X" equals 5 times (quintripler)